

Launch Mission Execution Forecast

Falcon 9 Starlink 4-5 Mission:

Issued: 4 Jan 2022 / 0830L (1330Z)

Valid: 6 Jan 2022 / 1649 – 1847L (2149 – 2347Z)



Forecast Discussion: Winds will become onshore today, moderating temperatures across Central Florida and bringing a slight chance for a short-lived coastal shower. On Wednesday a wave will push north over the Space Coast, increasing cloud coverage and rain chances late. The unsettled weather is pulled away through the day Thursday as a low pressure system moves north towards the Atlantic Coast. This will make way for another area of high pressure to build in, slowly clearing the cloud cover and instability over the Spaceport. The primary weather concern for a Thursday launch attempt is the Cumulus Cloud Rule.

On Friday, high pressure area continues to build into the area, creating gusty northerly winds at the Spaceport. The primary weather concerns for a Friday launch attempt remain the Cumulus Cloud Rule with the addition of Liftoff Winds.

| ıch Day | Probability of Violating Weather Constraints | | | | | | | | |
|---------------|--|---------|-------------------|--------------|--------------------|-----------|--------------------|---------------------------|----------------|
| | 20% Primary Concerns: Cumulus Cloud Rule | | | | | | | | |
| | Weather Conditions | | | | | | | Additional Risk Criteria | |
| aunch | Weather/Visi | bility: | None / 7 mi. | Туре | Cloud: Coverage | Base (ft) | Tops (ft) | Upper-Level Wind Shear: | Low |
| Ľ | Temp/Humid | ity: | 72°F / 66% | Cumulus | Few | 3,000 | 8,000 | Booster Recovery Weather: | Low |
| | Liftoff Winds | (200'): | 360° 8 - 12 mph | Altostratus | Few | 12,000 | 15,000 | Solar Activity: | Low |
| | Probability of Violating Weather Constraints | | | | | | | | |
| _ | | | | | | | | | |
| Jelay | 30% | Prim | ary Concerns: Cum | ulus Cloud R | ule, Liftoff V | Vinds | | | |
| | 30% | Prim | • | ulus Cloud R | · | Vinds | | Additional Risk Cr | iteria |
| -Hour Delay | 30% Weather/Visi | | • | | · | | Tops (ft) | Additional Risk Cri | i teria |
| 24-Hour Delay | | bility: | Weathe | r Condition | S Clouds | S | Tops (ft) 8,000 | | |

Next Forecast Will Be Issued 5 Jan 2022